

CONTENTS

EDITORIAL	xi
ACKNOWLEDGEMENTS	xiii
 The Seventeenth Arne Tiselius Memorial Lecture	
Cytofluorometry to Predict Effects of Biological Response Modifiers J. R. HOBBS	3
 IgG and IgA Subclasses	
Structure, Function Relationships within the Human IgG Subclasses R. JEFFERIS	21
Structure of the Human IgA Subclasses and Allotypes F. W. PUTNAM	27
Monoclonal Antibodies against IgG Subclasses A. VLUG, A. J. de BOT, H. BROUWER, G. G. de LANGE, A. M. van LEEuwEN, E. A. de RON and R. V. W. van EIJK	39
Monoclonal Antibodies against the IgG1 Allotypes G1m(z), G1m(a) and G1M(f): Reactivity and Usefulness in HAI, Direct Elisa and Capture Elisa G. G. de LANGE, A. M. van LEEuwEN, A. VLUG, P. H. van EDDE, P. J. LINCOLN and C. P. ENGELFRIET	49
One Allele (G2m(n)) of the Human IgG2 Locus is more Productive than the other in Homozygotes and Heterozygotes N. RAUTONEN, H. SARVAS and O. MÄKELÄ	57
Methodological Pitfalls in Immunoglobulin Subclass Assays: An Investigation of Anti-Ig Subclass Monoclonal Antibody and Jacalin Reactivity P. AUCOUTURIER, N. PINEAU, K. KOBAYASHI and J. L. PREUD'HOMME	61

Comparison of Normal Values of IgG Subclasses E. J. NIEUWENHUYS and T. A. OUT	71
Class and IgG Subclass Composition of Antibodies to Group A Streptococcal Carbohydrate in Children A. MORELL and F. SKVARIL	81
Immunodeficiency and Haemophilus Influenza Type B (HIB) Capsular Polysaccharide Vaccine Failures C. B. REIMER, C. M. BLACK, T. W. WELLS, B. D. PLIKAYTIS, R. A. INSEL, B. GELLIN, D. M. AMBROSINO, G. M. McQUILLAN, H. L. KEYSERLING, G. M. CARLONE, D. J. PHILLIPS and C. V. BROOME	87
Human IgG Subclass Antibodies to Dietary Antigens—Methodological and Functional Aspects S. HUSBY, G. BAATRUP, J. C. JENSENIUS and S.-E. SVEHAG	97
Neutrophil Chemiluminescence Induced by Group A Streptococci after Opsonization with Sera and Antibodies of known IgG Subclass Composition R. RUEFENACHT, P. CHASE, T. W. JUNGI and A. MORELL	103
Functional Role of Secretory IgA1 and IgA2 Antibodies against <i>Streptococcus Mutans</i> R. L. GREGORY, J. C. KINDLE, L. C. HOBBS and H. S. MALSTROM	109
IgG Subclasses of Human Monoclones Differ Between Myeloma and Post Bone-Marrow Graft Patients S. WALKER, P. RICHES and J. R. HOBBS	121
Inter-Laboratory Quality Control Program for IgG Subclass Protein Immunoassays in North America R. G. HAMILTON	127
Critical Aspects on Diagnosing IgG Subclass Deficiency and its Clinical Consequences L. HAMMERSTRÖM and C. I. E. SMITH	133
Structural Genetic Alterations in Ig Subclass Deficiencies A. BOTTARO, M. DEMARCHI, G. DELANGE, N. CAPPELLO, R. GALLINA and A. O. CARBONARA	139
Representation of IgG and IgA Subclasses within Monoclonal Gammopathies of Different Origin—A Minireview J. RADL, J. WELS and C. M. HOOGEVEEN	143

IgG Subclass Serum Levels in Juvenile Chronic Arthritis A. MARTINI	147
IgG Subclass Antibodies to Allergens during Immunotherapy R. DJURUP	151
A Monoclonal Anti-Human IgG-1 Subclass Antibody Produced with Secondary <i>in vitro</i> Immunization W. J. A. BOERSMA, J. E. M. van LEEUWEN, C. DEEN, J. RADL, J. J. HAAIJMAN, M. M. SCHELLEKENS and E. CLAASEN	157
Anti-Peptide Antibodies as Subclass Specific Reagents: Epitope Mapping of Human IgG-2 W. J. A. BOERSMA, C. DEEN, K. GERRITSE, N. D. ZEGERS, J. J. HAAIJMAN and E. CLAASEN	161
Isotype Analysis of Specific Antibody Responses in Long-Term Survivors of Bone-Marrow Transplantation P. RICHES, B. POLCE and R. HONG	167
Comparative Studies of the Biological Properties of Human IgA Subclasses J. MESTECKY, C. LUE, A. TARKOWSKI, I. LADJEVA, J. H. PETERMAN, Z. MOLDOVEANU, M. W. RUSSELL, T. A. BROWN, J. RADL, J. J. HAAIJMAN, H. KIYONO and J. R. McGHEE	173
Interleukin Cascade for the Regulation of IgA Synthesis and Immune Responses J. R. McGHEE, K. W. BEAGLEY, J. H. ELDRIDGE, K. FUJIIHASHI, C. LUE, Z. MOLDOVEANU, J. MESTECKY, J. RADL and H. KIYONO	183
Interaction of IgA with Complement and Phagocytes M. R. DAHA, P. S. HIEMSTRA, A. GORTER, M. RITS, A. W. L. van den WALL BAKE and L. A. van ES	193
Significance of Fab Fragments of IgA1 Antibodies in Bacterial Evasion of Host Defense Mechanisms M. W. RUSSELL, M. KILIAN, J. REINHOLDT and B. MANSA	205
Gm Markers as Indicators of the Occurrence of Transduction of Genes from one Person to Another R. GRUBB and L. KJELLEN	211
The Natures and Sources of Natural Biliary Immunoglobulins G. D. F. JACKSON, P. G. C. HANSEN and R. J. MANNING	215

Serum and Salivary IgA1, IgA2, IgG and IgM Antibodies to Bacterial Antigens in Aged, Edentulous, and Normal Adults M. W. RUSSELL, S. J. PRINCE, G. J. LIGTHART, J. RADL and J. MESTECKY	223
Immune Mechanisms in Periodontitis: Total and Antigen specific IgG and IgA Subclass Antibody-Producing Cells at the Disease Site H. KIYONO, T. OGAWA, A. TARKOWSKI, M. L. McGHEE, Z. MOLDOVEANU, J. MESTECKY and J. R. McGHEE	229
Quantitative Detection of Class-Specified Rheumatoid Factors and IgA Rheumatoid Factor Subclasses H. G. OTTEN, M. R. DAHA, J. RADL and F. C. BREEDVELD	239
Alcohol and the IgA Immune System A. van de WIEL, H. J. SCHUURMAN and L. KATER	247
Structural and Functional Aspects of Human IgA1. Epitope Expression, Jacalin Binding and Complement Activation J. BIEWENGA and P. S. HIEMSTRA	255
Cytofluorometry	
Phenotypic and Functional Changes During T Cell Activation W. S. HOLTER	269
Measurement by Flow Cytometry of Intracellular Free Ca^{2+} Concentration and Complement Receptor Expression in Activated Neutrophils and Monocytes M. O. SPYCHER, R. HOFFMAN, P. J. SPÄTH, J. J. BURCKHARDT and D. T. FEARON	277
Polymorphonuclear Leukocyte Heterogeneity Defined by 31D8 Expression A. M. EVANS and J. D. CHAMBERS	287
The Use of Flow Cytometry in the Study of Auto-Immune Neutropenia M. G. MACEY, J. SANGSTER and P. A. VEYS	293
CD8 Deficiency in Papuloerthroderma T. R. WHITE, J. A. A. LANGTRY, R. BEETHAM, C. M. E. ROWLAND PAYNE, R. C. D. STAUGHTON and J. R. HOBBS	303
The Clinical Value of DNA Analysis using Flow Cytometry B. K. SHENTON, S. NICHOLSON, D. TALBOT, A. L. GIVAN, J. R. FARNDON, I. D. A. JOHNSTON, R. M. R. TAYLOR and G. PROUD	313

Super-Avidin-Biotin System for Detecting Low-Density Cell Surface Antigens by Flow Cytometry J. H. M. COHEN, J. P. AUBRY, J. BANCHEREAU, M. D. KAZATCHKINE and J. P. REVILLARD	321
Flow Cytometric Analysis of Sequential Tumour Biopsies during Therapy J. E. D. DYSON	325
Antibody-Antibody and Antibody-Antigen Interactions Studied by Flow Cytometry R. A. ROBINS, E. B. AUSTIN, J. DAY, L. G. DURRANT, M. LAYTON and R. R. LAXTON	331
Monitoring Cell Fusion using Flow Cytometry M. G. ORMEROD and M. J. O'HARE	341
Measurement of Oncoproteins Simultaneously with DNA in Individual Cells using Flow Cytometry J. V. WATSON	345
Analysis of the Hoechst-33342 Fluorescence Emission Spectrum in Individual Cells with Reference to Multi-Drug Resistance J. V. WATSON, S. A. MORGAN and P. J. SMITH	359
Phenotypic and Functional Characteristics of Human Post Thymic Maturation T Cell Subsets M. W. MAKGOBA, S. SHAW and M. E. SANDERS	373
The Histopathology, Expression of B-Human Chorionic Gonadotrophin and Flow Cytometric Analysis of Invasive Transitional Cell Carcinoma of the Bladder J. E. MARTIN, B. J. JENKINS, R. J. ZUK, M. W. LOWDELL, H. DORAN and S. I. BAITHUN	377
Serum and Faecal Proteins during Crohn's Disease N. KAPEL, D. MEILLET, D. RAICHVARG and J. G. GOBERT	383
CD8 Deficiency in Patients with Muscle Fatigue following Suspected Enteroviral Infections (<i>Myalgia encephalitica</i>) J. R. HOBBS, T. R. WHITE, J. SHELDON, J. A. MOWBRAY and J. E. MONROE	391
Lipoproteins	
A Decrease in Density of HDL is Associated with Reverse Cholesterol Transport from the Perfused Rat Spleen M. A. MINDHAM and P. A. MAYES	401

Isolation and Properties of Apolipoprotein A for Therapeutic Use P. G. LERCH, J.-J. MORGENTHALER, M. C. PEITSCH, H. FRIEDLI, G. HODLER, J. E. DORAN, H. ISLIKER and H.-J. HEINIGER	409
Fibrates, Sequestrant Resines and HMG CoA Reductase Inhibitors and Lipoprotein Particles J. M. BARD, H. J. PARRA, P. DOUSTE-BLAZY and J. C. FRUCHART	417
Isolation and Characterization of the Protein and cDNA for β_2 -Glycoprotein I (Apolipoprotein H) J. DAY, M. BERKAW and P. ARNAUD	423
Role of Apolipoprotein A IV in Promotion of Cellular Cholesterol Efflux from Adipose Cells A. STEINMETZ, R. BARBARAS, J.-C. FRUCHART and G. AILHAUD	431
Simplified and Economical Procedure for the Fractionation of Apolipoproteins in Immobilized pH Gradients M. KOHLMEIER, P. SINHA, E. KÖTTGEN and P. G. RIGHETTI	437
 Additional Presentations	
<i>Pseudomonas aeruginosa</i> Exoproducts Modulate Neutrophil Chemiluminescence P. CHASE, F.-E. MALY, U. B. SCHAAD and A. MORELL	447
IgG Subclass Antibodies in Human and Murine Schistosomiasis C. CATTY, M. VARAGUNAM and A. JASSIM	451
Cytofluorimetric Assessment of Cellular Peroxidative Activity using 2'7'- Dichlorofluorescein Diacetate G. MELINO, V. DE LAURENZI, I. SAVINI and P. GUERRIERI	459
Modulation of Antigenic Profile by Persistent Infection of Sendai Virus in Human Neuroblastoma N. VILLANI, E. BALESTRA, A. FIRRIOLO, M. C. RIVETTA, G. MELINO and R. CALIO'	469
Author Index	477
Subject Index	479

